#### LAND RECLAMATION COMMISSION

#### STATE OF MISSOURI

P.O. BOX 176 JEFFERSON CITY, MISSOURI 65102 573-751-4041

			Per	mit To Enga	age in Sui	rface Min	ing	
	<del></del>	**************************************		LAND RECLAN	MATION CO	MMISSION		
			C	IS CHRISTY REI	SSUES TO FRACTOR	IES, L.L.C	· · · · · · · · · · · · · · · · · · ·	
		In the ap	plication,	a permit is here in the sta	by granted te of Missor	to engage in uri. The ext		
	Pı	roposed mining The locat	•		81 oder this per		more or less. s follows: Renewal	
County	Section	Township	Range	Acres Renewed	Acres New	Total Acres	Site/Stream Name	Site Number
Audrain	36	50N	08W	22	0	22	Wright/McKibben	0366
Montgomery	02	47N	05W	32	0	32	Johnson	1443
Montgomery	02	47N	05W	27	0	27	Musgrove/Grenwell	0364
IN WITI	NESS WHEREO	forth in "The as are p	e Land Recomulgated	clamation Act," I pursuant there	RSMo. 200 to by the La	)1, or in suc	or all of the conditions set th rules and regulations ation Commission.  October 2004  DIRECTOR OF STAFF	
						Lan	d Reclamation Commissior	

Permit No. 0297

Effective Date 11/01/2004

Expiration Date 10/31/2005

MO 780-1122 (6-95)

MISSOURI DEPARTMENT CHATURAL RESOURCES
LAND RECLAMATION COMMISSION
PERMIT RENEWAL FOR INDUSTRIAL MINERAL MINES OCT 0 4 2004

					NY CTT 1, MO 65102-0176
Christy Refractories, LLC	IDUAL	MIS	SOURI LAND	ATE こ <b>ム/27/</b> 02	
ADDRESS		CITY	5	IAIE	ZIP SODE 63350
PO BOX 159 - 833 Boonesli	ck Road	High hill		Mo	
CONJACT PERSON  Jeffrey W. Porter			18	636-585-	
FEES: COMPLETE SECTION I OR SECTIO	NII	AND THE RESIDENCE OF THE PARTY		030 707	2217
SECTION I. Fees: Open pit operators and	those mining more th	an 5,000 tons of sand	and/or gravel:		
1. To compute the site fee complete the in	formation below:				
SITE NAME OR NUMBER	Mark each month th	at the site will be oper	ated during pe	or sites operated ermit year pay \$	l less than six months po
(add a separate sheet for additional sites)	the permit year	·	Fo	or sites operate	d six months or more p
<sup>1.</sup> Johnson #1443	Jan, Fala, Mar, Azer, Ma	ay, Jun, Jul, Aug, Sep, O		ermit year pay \$= 150.00	300
301111S011 #1443		y, Jun, Jul, Aug, Sep, O			
WI ISHU/MCKIDDEH	1 N X	ay, Jun, Jul, Aug, Sep, O			
3. <u>Musgrove / Greenwell #0364</u> 4.		ay, Jun, Jul, Aug, Sep, O			
5.	<del> </del>	ay, Jun, Jul, Aug, Sep, O ay, Jun, Jul, Aug, Sep, O			
	<del> </del>				
6.	<del> </del>	ay, Jun, Jul, Aug, Sep, O			
7.	<del> </del>	ay, Jun, Jul, Aug, Sep, O			
8.	Jan, Feb, Mar, Apr, Mar	ay, Jun, Jul, Aug, Sep, O	ct, Nov, Dec \$		
9.	Jan, Feb, Mar, Apr, Mar	ay, Jun, Jul, Aug, Sep, O	ct, Nov, Dec \$		
10.	Jan, Feb, Mar, Apr, Ma	ay, Jun, Jul, Aug, Sep, O	ct, Nov, Dec \$		-
TOTAL SITE FEE			<b>→</b> \$	450.0	00
2. Acreage Fee \$5 X 81 number of	f acres bonded		\$	405.0	00
3. Annual Permit Fee			\$	500	
	•				*
4. Total Fee (Add totals from 1, 2 and 3)				77.5	5.00
NOTE: If Total Fee exceeds \$2,500.00 the	n pay only		\$	2,500	•
SECTION II. FEES: Sand or gravel operato	rs mining less than 5	,000 tons per year:			
1. Annual Permit Fee			\$	300	
SIGNATURE OF APPLICANT	Coper Charles have been described to the Charles Charles of Market by Parkles and Charles between the Charles of Charles	VP Operation	s	DATE 9	/27/04
Appeared before me this 28 day of	September	<sub>20</sub> 04 Jeff	rey W. Poi	rter	
to me personally known, who executed the al		and deeds.			
NOTARY PUBLIC EMEDICER SEAL STATE OF	lissouri		COUNTY (OR CITY	OF ST. LOUIS)	
SO JOIAALTOS	SWORN BEFORE ME. THIS		Montg	omery	
PUBLIC THE NOTARY		ember <sub>YEAR</sub> 2004	USE RUBBER	STAMP IN C	EAR AREA BELOW
NOTARY PUBLIC SI	GNATURE	MY COMMISSION EXPIRES			
POP MSS MILL	() Hill.	0 10-0-05			
Robin D. Overkamp  OTARY PUBLIC - STATE OF MISSOURI	ME (TYPED OR PRINTED)	4 10-9-03			·
MONTGOMERY COUNTY Y COMMISSION EXPIRES OCT. 9, 2005 Robin				<del></del>	
FOR DEPARTMENT USE ONLY: APPROVED BY	DATE APPROVED  10-7-2	PERMIT NUMBE	297	EXPIRATION	10ATE 2-3/-05
10 780-1780 (12-02)	10-/2	7			





JUN 2 4 2002

				MISSOURI LAND ECLAMATION COMMISSION
To be completed for each separate are	a of disturbance associ	ated with mining operatio	ns.	ECLAMATION COMMISSION
SITE NAME OR NUMBER		PERMIT NUMBER		
Johnson #1443		0297		
COMPANY NAME				
Christy Refractories LLC				
COUNTY	1/4 SECTION		SECTION	
Montgomery	SW 1/4		02	
OWNSHIP	RANGE		ACRES	
47N	05W		17	3× 80 7-12
RIVER OR STREAM NAME (FOR IN-STREAM AC				
	,			
MINERAL COMMODITY		ESTIMATED TONS/YEAR (	EOR GRAVEI	QITEQ)
		ESTIMATED TONOTICAN	FOR GRAVEL	. 311 E3)
Fireclay				
JAME OF LANDOWNER (ATTACH LIST IF MOR	E THAN ONE)			
Johnson Family Partnership	LLLP			
DDRESS				
261 S. Hwy 19				
ITY		STATE		ZIP CODE
				63363
New Florence OURCE OF RIGHT TO MINE (CHECK ONE):		MO		DATE OF AGREEMENT
MINERAL DEED		X LEASE		3/1/95
WARRANTY DEED		VERBAL AGREEMENT		
OTHER (DESCRIBE):		WERBAL AGREEMENT		
IINERAL RIGHTS OWNER (ATTACH LIST IF MO	DRE THAN ONE)			
Same as above				
DDRESS		<del></del>		
ITY.		STATE		ZIP CODE
OURCE OF RIGHT TO MINE (CHECK ONE):				DATE OF AGREEMENT
MINERAL DEED		XX LEASE		
WARRANTY DEED		VERBAL AGREEMENT		
OTHER (DESCRIBE):				
OTE: Each site must be shown on a r	map and be included in	a public notice and an app	oroved min	e plan.
O 780-1036 (12-91)				





AUG 2 3 2002

P.O. BOX 176 JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):	MISSO	URI LAND
SHORT TERM, FOR ONE PERMIT YEAR	RECLAMATIC	DN COMMISSION
$\overline{\mathbf{X}}$ LONG TERM, FOR PERIOD THROUGH DATE:	2002 Thru 2006	
DESCRIPTION OF SITE PRIOR TO LAND RECLAMA <sup>*</sup> AND TOPOGRAPHY.	TION COMMISSION PERMITTING (BY APPLICANT OR	PRIOR OPERATOR), INCLUDING SOIL, VEGETATION
Heavy wooded area on a ridge, leaving small timber, under by and west by several small clay	steep slopes on each side. Largush, stumps and tree laps. Are	rge timber has been removed ea bordered on the south, east
OPERATION PLAN - 10 CSR 40-10.020(2)	(D)1.	
A. TOPSOIL		
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RE	ECLAMATION COMMISSION PERMITTING	IS TOPSOIL TO BE SOLD OR DISCARDED OFFSITE?
	0" - <u>3"</u> INCHES	YES OR XX NO
DESCRIBE METHODS AND EQUIPMENT USED FOR	TOPSOIL REMOVAL	
be removed with 12" to 15" of	brush and stumps with dozers, t sub-soil to be used for replac ers before over-burden is remov	ement soil. Soil will be
DESCRIBE METHODS AND EQUIPMENT USED FOR	TOPSOIL STORAGE AND PROTECTION	-
The scrapers will deposit soi from erosion by being seeded	l in a pile near the pit area. with grass.	Soil will be protected



B. SPO	IL		AUG 2 3 2002
DESCRIB	E METHOD	S AND LOCATION OF SPOIL PLACEMENT AND DISPOSAL	MISSOURI LAND
			RECLAMATION COMMISSION
		n from pit will be placed in old mined out area. soil is replaced.	Graded to traversable slopes
			ı
	D MATE?	RIALS  S AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPA	ATED WRITE "NONE" BELOW)
None			
			l
·			
		ATION (GIVE ALL DIMENSIONS IN FEET)  ON AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS	
			,
			1
			ļ
			1
YES	NO		
	X	Will any excavation be at or within fifty feet (50') of the right-of-wa	y of any public road?
	X	Will any highwall consisting of unconsolidated materials be left	-
		public road? (NOTE: For unconsolidated materials left in place, start near the right of way, and in no case may the excavation to twenty-five feet plus one and one-half (1-½) times the depth greater, unless a variance is granted by the Commission.)	a slope of no more than forty degrees may be closer to the right of way than fifty feet
	X	Will any excavation start at or within fifty feet (50') of any property (NOTE: If the answer is "yes", a safety barrier may be needed.)	line?
C 780-1327	(12-91)		

RECEIVED

AUG 2 3 2002

RECLAMATION PLAN	I - 10 CSR 40-10.020(2)(D)2.	MISSOURI LAND
A. REVEGETATION	(Attach additional sheets, if needed)	RECLAMATION COMMISSION
REVEGETATION MIX #1	PURPOSE OR LAND USE Agriculture	B. SEEDING OR PLANTING TIME Sept. 1 Oct. 15

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

During the first fall following Top Soil replacement the seed mix will be either broadcase and harrowed or planted with notill drill depending on weather and soil conditions.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Prennial Rye Fescue K31 Cardinal Wheat Volunteer Native Species	80# Acre 60# Acre 4 bu Acre		
REVEGETATION MIX #2	PURPOSE OR LAND USE Agriculture	B. SEEDING OR PLA Spring Feb	

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

In the following spring after rop soil replacement, re-seeding of Orchard Grass and Red Clover and if needed other grasses will be planted to control erosion.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Lespedeza Clover Orchard Grass	10# Acre 10# Acre 30# Acre		

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

### RECEIVED

AUG 2 3 2002

3				G

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

RECLAMATION COMMISSION

All spoil areas will be graded to slopes traversable by ATV's. A lake of approximately four acres will be constructed in final pit area. The lake will be constructed and designed to meet SCS standards.

#### C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading will be done on a continuous basis as spoil is placed in mined out portions. Final grading will be done. Completion within 10 to 14 months after back-fill of spoil.

#### REPLACEMENT OF TOPSOIL

Top Soil will be placed on spoil soon after final grading is finished. Top Soil will be replaced to the same depth as previous mined portions.

#### REVEGETATION

All Top Soil areas will be disced and seeded the first spring or fall, depending on time of year of Top Soil replacement and final grading.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)  1.1. of topsoil plus 11" of subsoil for a total of 12"	
D. USE OF LAND WHEN RECLAIMED	
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	28
Agricultural (pasture, cropland, and norticultural)	
Development (residential, industrial, and recreational)	
Water impoundments (for wildlife, agricultural, or development)	4
NIO 780-1327 (12-91)	



AUG 2 3 2002

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

SIGNATURE OF APPLICANT		TITLE	DATE
Mul		Facility Ma	nager 8/14/02
CTARY PUBLIC EMBOSSER SEAL	STATE .		COUNTY (OR CITY OF ST. LOUIS)
COTAR	SUBSCRIBED AND SWORN BEFORE ME, TH	IS .	Mentgomery
PUBLIC TO NOTARY	19 DAY OF (JUO)	ust #2002	USE RUBBER STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE	MY COMMISSION	
SEAL SEAL SEAL SEAL SEAL SEAL SEAL SEAL	Rebin O Orulas	) 10 9 02	
JANY PUBLIC - STATE OF MISSOURI	NOTARY PUBLIC NAME (TYPED OR PRINTED)		
MATINGOMERY COUNTY	RobinD. OverKe	in P	
APPROVED BY (DIRECTOR'S REP	RESENTATIVE)	DATE APPROVED	PERMIT NUMBER .
frefre	File	1-:003	0297
(0 780-1327 (12-91)			PAGE 5 OF 5



MO 780-1036 (12-91)



To be completed for each separate area	of disturbance associa	ated with mining operation	ns. MISSOURI LAND
SITE NAME OR NUMBER		PERMIT NUMBER	NOISSIMMUN CUMMISSION
MUSGROVE/GREENWELL		0297	
COMPANY NAME	ACTORIES COMPA	ANY I I C	
	TOTORIES COMP		
COUNTY	1/4 SECTION		SECTION
MONTGOMERY	E ½	ofSE¼	02
TOWNSHIP 47N	RANGE		ACRES
		05W	2 7
RIVER OR STREAM NAME (FOR IN-STREAM ACF	ES)		
N A			
MINERAL COMMODITY		ESTIMATED TONS/YEAR (	FOR GRAVEL SITES)
CLAY		NA	
			-4-
NAME OF LANDOWNER (ATTACH LIST IF MORE	THAN ONE)		
BILLY J. CARTER	L		
ADDRESS			
PO BOX 24			
CITY		STATE	ZIP CODE
NEW FLORENCE		MO.	63363
SOURCE OF RIGHT TO MINE (CHECK ONE):			DATE OF AGREEMENT
MINERAL DEED		LEASE	
WARRANTY DEED		VERBAL AGREEMENT	<u> </u>
OTHER (DESCRIBE):			
MINERAL RIGHTS OWNER (ATTACH LIST IF MO	RE THAN ONE)		
A.P. GREEN INDUSTR	IES, INC.		
ADDRESS			
GREEN BOULEVARD			
CITY		STATE	ZIP CODE
WEXICO		MO.	65265
SOURCE OF RIGHT TO MINE (CHECK ONE):			DATE OF AGREEMENT
MINERAL DEED		LEASE	AUG1, 1994
WARRANTY DEED		VERBAL AGREEMENT	L
OTHER (DESCRIBE):			



# MISSOURI DEPARTMENT NATURAL RESOURCES OCT 0 1 1997

MINE PLAN  RECLAMATION COMMISSION  PE OF PLAN (CHECK ONE):  SHORT TERM, FOR ONE PERMIT YEAR  COMPANY NAME  CHRISTY REFRACTORIES CO.L.L.C.  CLONG TERM, FOR PERIOD THROUGH DATE:  12-1-97 THRU 10-31-2007  SCRIPTION OF SITE PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION IN TOPOGRAPHY.	LAND RECLAMATION COMMISSION	<b>\$</b>		·
PERATION PLAN-10 CSR 40-10.020(2)(D)1.  TOPSOIL  TOPSOIL  TOPSOIL  THE ALTON WATER THE AREA OF TOPSOIL PRIOR TO LAND RECLAMATION COMMISSION PERMITTING (BY APPLICANT OR PRIOR OPERATOR), INCLUDING SOIL, VEGETATION DO TOPSOGRAPHY.  WOODED AREA ON RIDGES AND STEEP SLOPES. LARGE TIMBER HAS BEEN REMOVED. LEAVING BRUSH STUMPS AND TREE LAPS. PERMITED ACRES ARE TO BE MINED IN CONTINUOUS PHASES FROM ONE PIT TO NEXT, OF APROX. ONE ACRE AREAS. RECLAMATION WILL BE DONE EACH YEAR. ON COMPLETION OF RECLAMATION WATER IMPOUNDMENT AND WILDLIFE AREAS WILL BE ESTABLISHED.  PERATION PLAN-10 CSR 40-10.020(2)(D)1.  TOPSOIL  TOPSOIL  TOPSOIL  TOPSOIL  LAND CLEARED OF BRUSH AND STUMPS WITH DOZERS, TOP SOIL BEING VERY THIN WILL BE REMOVED WITH 12 "TO 15" OF SUB-SOILTO BE USED FOR REPLACEMENT SOIL. SOIL WILL BE COMPLETELY REMOVED WITH SCRAPERS BEFORE OVER-BURDEN IS REMOVED FROM AREA TO BE MINED.  SCRIBE METHODS AND EQUIPMENT USED FOR TOPSOIL STORAGE AND PROTECTION  THE SCRAPERS WILL DEPOSIT SOIL IN A PILE NEAR THE PIT AREA. SOIL WILL BE PROTECTED FROM EROSION BY BEING SEEDED WITH GRASS.	\			
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B. SPO	11				- <del>-</del> _	-41 DOT	- VED
		OS AND LOCATION OF SPOIL	PLACEMENT AND DISP	OSAL		067	U J 1002
						no Misso	- 139/ <b>D</b>
						RECIAMATION	DURI LAND N COMMISSION
	WAT	ER IMPOUNDMENT	WILL BE PUM	PED OR DRAINED.	UAED DI	T D 37 D == 32	- ONWICO
	ricori	OPD WINED OUT	AREAS GRADE	D TO TRAVERSABL	F CIODEC	KNDEN Perope '	
	SOIL	IS REPLACED.			n Shores	DEFUKE .	101
C. ACII	MATE	RIALS					
DESCRIB	Е МЕТНО	S AND EQUIPMENT USED FO	OR HANDLING ACID MA	TERIALS (IF NONE IS ANTICIP	ATED, WRITE "N	IONE" BELOW)	
	NONE						
D. PIT I	NFORM	ATION (GIVE ALL DIME	ENSIONS IN FEET)				
DESCRIB	E LOCATIO	ON AND ORIENTATION OF PI	T, IF NOT CLEAR ON SIT	TE MAPS			
	SEE	SITE MAP					
<del></del>							
YES	NO						
	<del>N' Y</del>						,
L	XX	Will any excavation be	e at or within fifty fe	et (50') of the right-of-wa	ly of any publ	lic road?	
		1400					
	x.x			olidated materials be left			
				d materials left in place,			
				ase may the excavation t alf (1-½) times the depth		-	•
		greater, unless a varia			i or unconst	muateu maten	ai, willollevel 15
		groutor, urness a valla	oo io granted by th	10 001111111331011.)			
	KX	Will any excavation st	art at or within fifty	feet (50') of any property	line?		
			-	rrier may be needed.)	*		
				,,	···		
10 780-1327	(12-91)						PAGE 2 OF S
		PERMIT NO.0297	SITE NO.	+/or NAME MUSGROVE		RT.T.	·
					,		

SILE NU.+/OF NAME

KEC	ET	VE	7
1\ oct	01	7	U

		<del>/</del>		<i></i>			
RECLAMATION PLAN	l - 10 CSR 40-10.020(2	2)(D)2.	*				
A. REVEGETATION	(Attach additional she	ets, if needed)	MISSOURI LA	ND			
REVEGETATION MIX #1		PURPOSE OR LAND USE	RECIAMATION CO	AR SEEDING OR PLANT	TING TIME		
		WI	LDLIFE	SEPT.	1:	_0ST.	15

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

THE FALL FOLLOWING TOP SOIL REPLACEMENT THE SEED MIX WILL BE BROADCAST AND HARROWED OR PLANTED WITHNOTILL DRILL DEPENDING ON WEATHER AND SOIL CONDITIONS.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
PRENNIAL RYE FESCUE K31 GARDINAL WHEAT  ORCHARD GRAGS LADINO CLOVER RED CLOVER KORGAN LES PEDELA	80# Acre 60# Acre 4 bu Acre 8-10 2	VOLUNTEER TREES COTTON WOOD PIN OAK WHITE GAK CEDAR Les M.D.	

REVEGETATION MIX #2

PURPOSE OR LAND USE

B. SEEDING OR PLANTING TIME

WILDLIFE

FEB-APR14

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

THE FOLLOWING SPRING AFTER TOP SOIL REPLACEMENT, RE SEEDING OF ORCHARD GRASS AND RED CLOVER AND IF NEEDED OTHER GRASSES WILL BE PLANTED TO CONTROL EROSION.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
RED CLOVER ORCHARD GRASS	6 20 # Acre 10 30 # Acre		

MO 780-1327 (12-91)

PAGE 3 OF

PERMIT NO. 0297 SITE NO. +/OF NAME MUSGRONE/GREE	WEL:
--	------

#### B. GRADING

DESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

ALL SPOIL AREAS WILL BE GRADED TO SLOPES TRAVERSABLE BY ATV'S. LAKES OF VARIOUS SIZES WILL BE CONSTRUCTED IN THE FINAL PIT AREAS. THE LAKES WILL BE CONSTRUCTED AND DESIGNED TO MEET SCS STANDARDS.



C.	DES	CRIBE	THE GENERAL	SEQUENCE	AND TIMINO	G OF THE FOLI	OWING A	CTIVITIES

GRADING

GRADING WILL BE DONE ON CONTINUOUS BASIS AS SPOIL IS PLACED IN MINED OUT AREAS. FINAL GRADING WILL BE DONE . COMPLETION WITHIN 10 to 14 MONTHS AFTER BACK-FILL OF SPOIL.

REPLACEMENT OF TOPSOIL

AVERAGE DEPTH OF DERI AGED TORGON (INCLIED)

TOP SOIL WILL BE PLACED ON SPOIL SOON AFTER FINAL GRADING IS FINISHED. TOP SOIL WILL BE REPLACED TO THE SAME DEPTH AS PREVIOUS MINED PORTIONS.

#### REVEGETATION

ALL TOP SOIL AREAS WILL BE DISCED AND SEEDED THE FIRST SPRING OR FALL DEPENDING ON TIME OF YEAR OF TOP SOIL REPLACEMENT AND FINAL GRADING.

AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)	
l" TOP SOIL 8"to12" sub soil	
D. USE OF LAND WHEN RECLAIMED	5071114750 40050
Estimate acreage of each land use below, after reclamation	ESTIMATED ACRES:
Wildlife (forest or other habitat with livestock excluded)	17
Agricultural (pasture, cropland, and horticultural)	
Development (residential, industrial, and recreational)	
Water impoundments (for wildlife, agricultural, or development)	10

MO 780-1327 (12-91)

By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.



SIGNATURE OF APPLICANT		TITLE		DATE
Robert	of Chilo	GENERAL M	MANAGER	9-25-97
NOTARY PUBLIC EMBOSSER SEAL	STATE /		COUNTY (OR CIT	ry of St. Louis)
	1 Maries		100-	
	SUBSCRIBED AND SWORN BEFORE ME, TH	IIS ,	1010	MTAO MUNG
	25th DAY OF X	Winds (1997)	USE RUBBEI	R STAMP IN CLEAR AREA BELOW
	NOTARY PUBLIC SIGNATURE  NOTARY PUBLIC NAME (TYPED OR PRINTED)  LEBRA TO LE	MY COMMISSION EXPIRES  A 1-13-99  AP 1)	Debra County My Comm	K. Gerard, Notary Public of Warren, State of Missouri nission Expires Jan. 13, 1999
APPROVED BY (DIRECTOR'S REPR	ESENTATIVE)	DATE APPROVED		PERMIT NUMBER
Moleun Delul	<i>J</i> .	11-26.97		297

MO 780-1327 (12-91)

PAGE 5 OF 5

DITE NU. +/OF NAME

For Complete, Friendly Service, Call:

486-2131

## HERMANN LUMBER HOME CENTERECEIVE Hermann, Misso OCT 01 1997

6th & Market

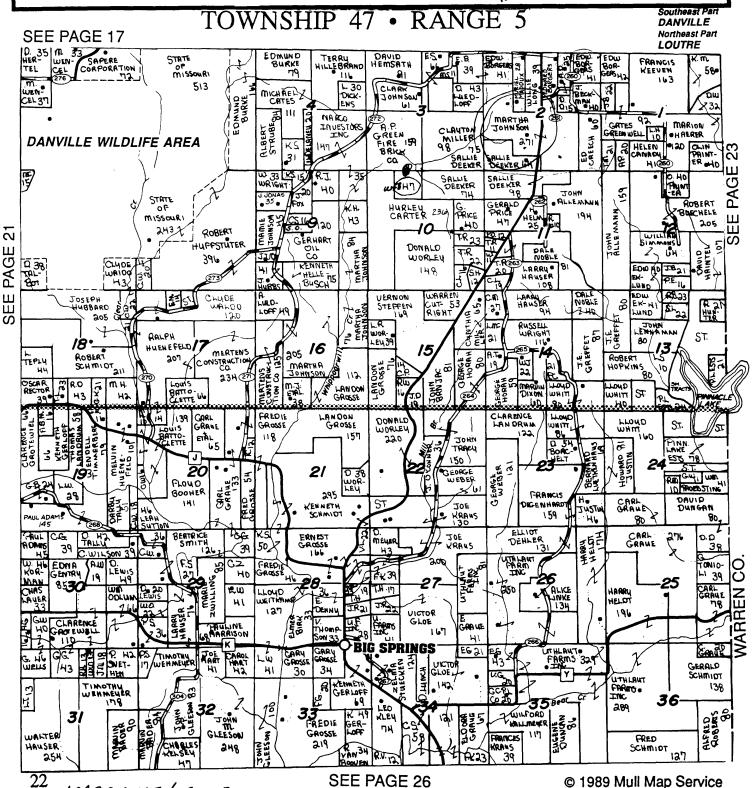
FLOOR COVERINGS

MASGROVE/GREENWELL

READY-MIXED CONCRETE

MISSOURI LAND RECIAMATION COMM

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486-2131

## HERMANN LUMBER HOME CENTERECEIVE Hermann, Missoul OCT 0 1 1997

6th & Market

READY-MIXED CONCRETE

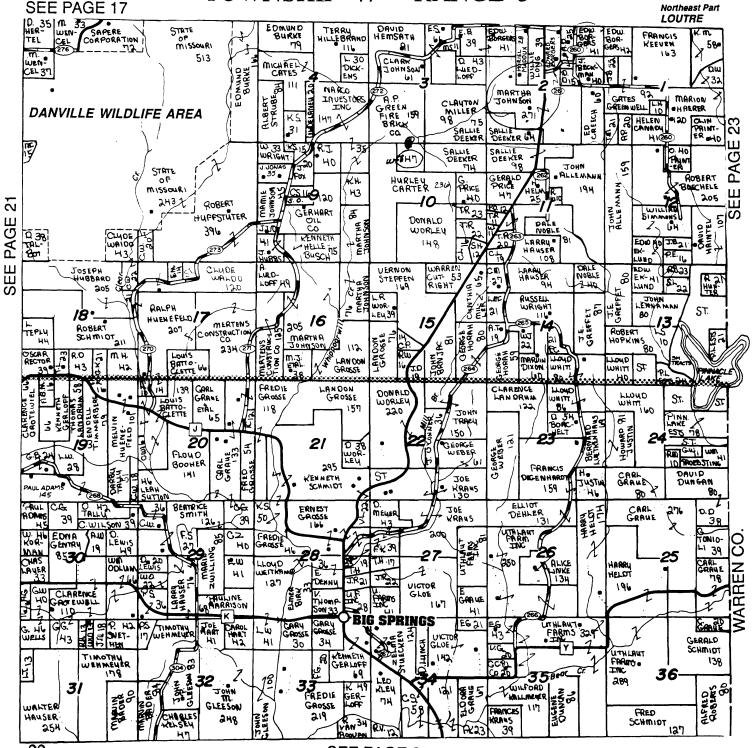
E MISSOURI LAND RECLAMATION COMMISSION

FLOOR COVERINGS

TOWNSHIP 47 • RANGE

Southeast Par DANVILLE

OHW

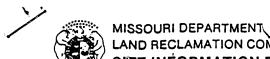


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MUSGROVE/GREEN WELL

SEE PAGE 26

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SITE INFORMATION FO	rm		T. An	G 0 3 1998	
To be completed for each separate area of	disturbance associate	d with mining operation	MIS RECLAMAI	SOURI LAND	
SITE NAME OR NUMBER	<del> </del>	PERMIT NUMBER		ON COMMISSION	
WRIGHT		0297			
COMPANY NAME		· · · · · · · · · · · · · · · · · · ·			
CHRISTY REFRA	CTORIES COMPA	NY LLC			
COUNTY	1/4 SECTION		SECTION		
AUDRAIN	SW4 of NW4			36	
TOWNSHIP	RANGE		ACRES		
50N	08W			<b>4</b> 2	
RIVER OR STREAM NAME (FOR IN-STREAM ACRES)				<b>3</b> 2	
NA					
MINERAL COMMODITY		ESTIMATED TONS/YEAR (	FOR GRAVEL	SITES)	
CLAY		NA			
		1 NA			
NAME OF LANDOWNER (ATTACH LIST IF MORE THA	AN ONE				
JERRY AND KATHRYN					
ADDRESS	WKIGHT				
RT.#1					
CITY		STATE		ZIP CODE	
MARTINSBURG				65264	
SOURCE OF RIGHT TO MINE (CHECK ONE):		MO.		DATE OF AGREEMENT	
MINERAL DEED		E LEASE		JAN.29,	19.98
WARRANTY DEED		VERBAL AGREEMENT		JAN	1 5 5 4
OTHER (DESCRIBE):		TERBAC AGRICUMENT			
MINERAL RIGHTS OWNER (ATTACH LIST IF MORE T					
SAME	HAN ONE)				
ADDRESS					
ADDRESS					
CITY					
Cit		STATE		ZIF CU	
COURCE OF DIG. 17			<del></del>	<del> </del>	
SOURCE OF RIGHT TO MINE (CHECK ONE):  MINERAL DEED		□		DATE OF AGREEMENT	
WARRANTY DEED		LEASE			
OTHER (DESCRIBE):		VERBAL AGREEMENT			
- OTHER (DESCRIBE):					

NOTE: Each site must be shown on a map and be included in a public notice and an approved mine plan.

P.O. BOX 176 JEFFERSON CITY, MO 65102

TYPE OF PLAN (CHECK ONE):		CHRISTY	REFRACTORIES C	O TTC
SHORT TERM, FOR ONE PERMIT YEAR	COMPANY NAME_		REPRACTORIES C	
XXLONG TERM, FOR PERIOD THROUGH DATE:	11-1-97 thru 10-	-31-2007		
DESCRIPTION OF SITE PRIOR TO LAND RECLAMATION AND TOPOGRAPHY.			PRIOR OPERATOR), INCLUDIN	IG SOIL, VEGETATION
CLAY SOIL, BRUSH AND AREA WITH SOME LARGE	GRASS, STEEP HI	LLS AND S	LOPES OLD MINED	
			DECEIVE	$\mathcal{D}$
			RECEIVE AUG 0 3 1998	V
			MISSOURI LAND RECLAMATION COMMIS	SSION
OPERATION PLAN - 10 CSR 40-10.020(2)(D)	1.			
A. TOPSOIL				
AVERAGE DEPTH OF TOPSOIL, PRIOR TO LAND RECLA			IS TOPSOIL TO BE SOLD OR	DISCARDED OFFSITE?
	<u>0"to 2"</u>	INCHES	YES OR X NO	
DESCRIBE METHODS AND EQUIPMENT USED FOR TOP	SOIL REMOVAL			
TOP SOIL, BEING VERY TO BE USED FOR REPLACE WITH SCRAPERS BEFORE C	MENT SOIL. SOIL	WILL BE	COMPLETELY REMO	VED
DESCRIBE METHODS AND EQUIPMENT USED FOR TOP	SOIL STORAGE AND PROTECT	ION		
THE SCRAPERS WILL DE BE PROTECTED FROM ER	POSIT SOIL IN A OSION BY BEING	PILE NEA SEEDED WI	R THE PIT AREA. TH GRASS.	SOIL WILL
	•			
O 780-1327 (12-91)				PAGE 1 OF

PERMIT NO. \_\_\_\_\_ SITE NO.+/or NAME WRIGHT

AOIL
Water impoundment will be pumped or drained. Over-burden from pit will
be placed in water impoundment and old mined out area. Graded to
traversable slopes before top soil is replaced.
C. ACID MATERIALS
DESCRIBE METHODS AND EQUIPMENT USED FOR HANDLING ACID MATERIALS (IF NONE IS ANTICIPATED, WRITE "NONE" BELOW)
NONE
NONE
DECEIVED
RECEIVED AUG 0 3 1998
MISSOURI LAND
RECLAMATION COMMISSION
D. PIT INFORMATION (GIVE ALL DIMENSIONS IN FEET)
DESCRIBE LOCATION AND ORIENTATION OF PIT, IF NOT CLEAR ON SITE MAPS
YES NO
Will any excavation be at or within fifty feet (50') of the right-of-way of any public road?
Will any highwall consisting of unconsolidated materials be left within fifty feet of the right-of-way of any public road? (NOTE: For unconsolidated materials left in place, a slope of no more than forty degrees may start near the right of way, and in no case may the excavation be closer to the right of way than fifty feet
or twenty-five feet plus one and one-half (1-1/2) times the depth of unconsolidated material, whichever is greater, unless a variance is granted by the Commission.)
Will any excavation start at or within fifty feet (50') of any property line?  (NOTE: If the answer is "yes", a safety barrier may be needed.)
MO 780-1327 (12-91)

#### £CLAMATION PLAN - 10 CSR 40-10.02 (D)2.

#### A. REVEGETATION (Attach additional sheets, if needed)

The state of the s			
REVEGETATION MIX #1	PURPOSE OR LAND USE	B. SEEDING OR PLANTING	TIME
	WILDLIFE	SEPT 1	OCT 15

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

During the first fall following top soil replacement the seed mix will be either broadcase and harrowed or planted with notill drill depending on weather and soil conditions.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Prennial Rye Fescue K31 Cardinal Wheat	80# Acre 60# Acre 4 bu Acre	Volunteer Trees Cotton Wood Pin Oak White Oak Cedar	:

REVEGETATION MIX =2	PURPOSE OF LAND USE	B. SEEDING OF PLANTING TIME
	Wildlife	Spring Feb 15 - Apr 15

DESCRIBE METHODS AND EQUIPMENT TO BE USED FOR SEEDING OR PLANTING

In the following spring after top soil replacement, re-seeding of orchard grass and red clover and if needed other grasses will be planted to control erosion.

Lime and fertilizer will be applied according to recommendations made, based on an analysis of soil texture and nutrients. Mulch will be applied to all slopes exceeding 5:1.

SEEDED SPECIES	POUNDS/ACRE	TREE OR SHRUB SPECIES	STEMS/ACRE
Red Clover Orchard Grass	20# Acre 30# Acre		
		RECEIVED AUG 0 3 1999	

MISSOURI LAND RECLAMATION COMMISSION

ATTACH ADDITIONAL SHEETS FOR ADDITIONAL SEED MIXES.

#### GRADING

JESCRIBE PROPOSED RECLAIMED TOPOGRAPHY, INCLUDING SLOPES

All spoil areas will be graded to slopes traversable by ATV's. A lake of approx. 12 acres will be constructed in final pit area. The lake will be constructed and designed to meet SCS standards.



#### C. DESCRIBE THE GENERAL SEQUENCE AND TIMING OF THE FOLLOWING ACTIVITIES

GRADING

Grading will be done on continuous basis as spoil is placed in mined out portions. Final grading will be done. Completion within 10 to 14 months after back-fill of spoil.

#### REPLACEMENT OF TOPSOIL

Top soil will be placed on spoil soon after final grading is finished. Top soil will be replaced to the same depth as previous mined portions.

#### REVEGETATION

All top soil areas will be disced and seeded the first spring or fall, depending on time of year of top soil replacement and final grading.

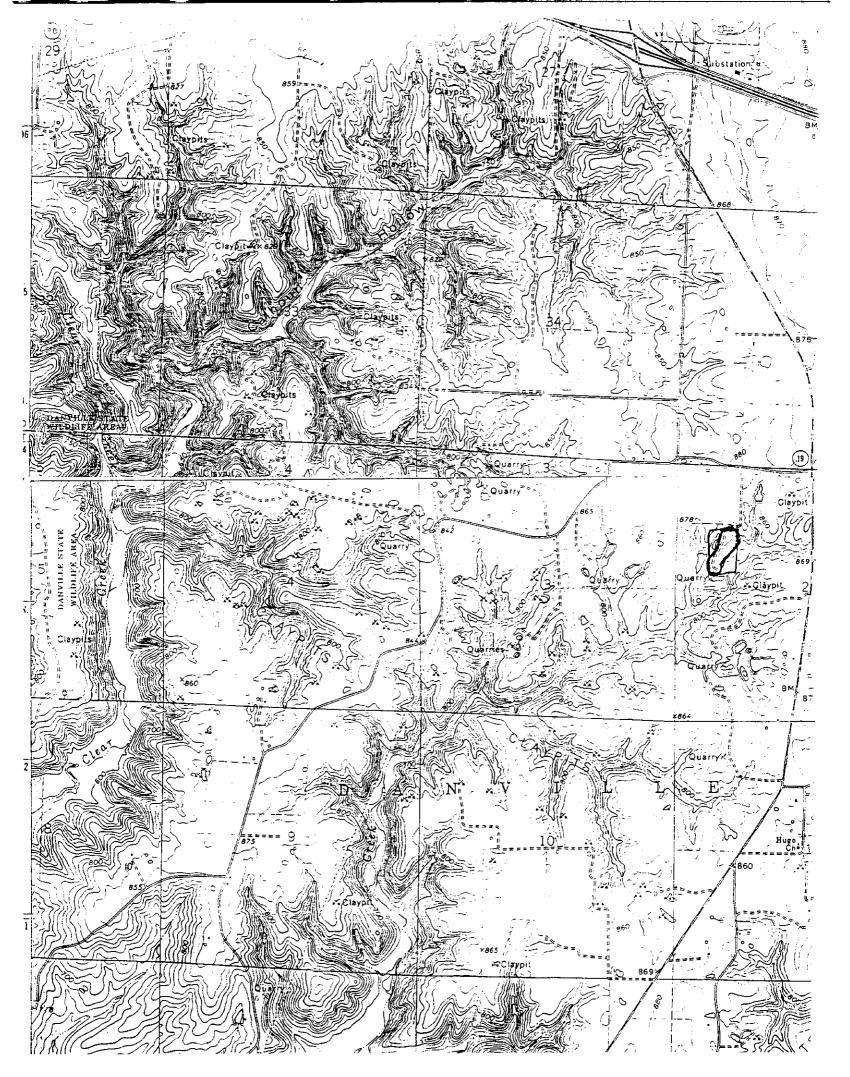
MO 780-1327 (12-91)		PAGE 4 OF
Water impoundments (for wildlife, agricultural, or development)	,	1 2
Development (residential, industrial, and recreational)		
Agricultural (pasture, cropland, and horticultural)		10
Wildlife (forest or other habitat with livestock excluded)		
Estimate acreage of each land use below, after reclamation		ESTIMATED ACRES:
D. USE OF LAND WHEN RECLAIMED	<del></del>	FOTHATED ACDES.
Maybe 1" top soil - 8" to 12" sub soil		
: AVERAGE DEPTH OF REPLACED TOPSOIL (INCHES)		

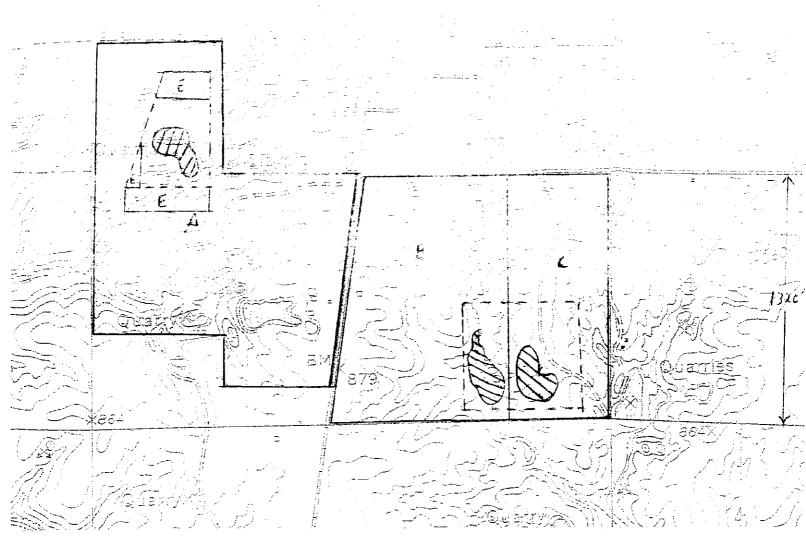
By my signature, I attest to the following:

- 1. All statements made on this Mine Plan Form are correct, complete, and true, to the best of my knowledge.
- 2. I or the company I am authorized to represent intend(s) to mine in accordance with this Mine Plan Form, and in accordance with the Missouri Land Reclamation Act, Sections 444.760 through 444.789, RSMo and all rules, regulations, orders, decisions and permits of the Missouri Land Reclamation Commission pertaining to my company's surface mining operations.
- 3. I have obtained the approval of all landowner's for all proposed post-reclamation land uses.
- 4. I have a valid agreement with all landowners which gives me the right to grant access to the Director of the Missouri Land Reclamation Commission and his authorized representatives, and I grant such access, and further where I have no such right, I have attached signed affidavits from the landowners, granting such access.

RECEIVED AUG 0 3 1998

SIGNATURE OF APPLICANT		TITLE	DATE
	Cho.	GENERAL MA	
NOTARY PUBLIC EMBOSSER SEAL  STATE  SUBSCRIBED AND SWORN BEFORE ME. T  DAY OF  NOTARY PUBLIC SIGNATURE  NOTARY PUBLIC NAME (TYPED OR PRINTED)		THIS  DE 11 LE 19 9 7  MY COMMISSION  EXPIRES  1 -13-99	USE RUBBER STAMP IN CLEAR TREA BELOW  Debra K. Gerard, Notary Public County of Warren, State of Missouri My Commission Expires Jan. 13, 1999
APPROVED BY (DIRECTOR'S REPRE	SENTATIVE)	10/06/9	9 10/3/198
MO 780-1327 (12491) PERMI	NO. 0297 SITE NO.+	or name WRig	PAGE 5 OF 5





Christy Refractories Co. LLC A - Johnson Family Partnership LLP Surface and Minerals owned by Johnson Family 4 water/28 pasture Acres = 32Property boundaries
Permit Boundaries Tuture Lake Site E-Exfansion Area

NE Public Roads Within 100 of ParatAins

Montgomery County, 47N, 5W, Sec. 2

10/4/02

B - Greenwell Pit Surface owned by Johnson family Partnership

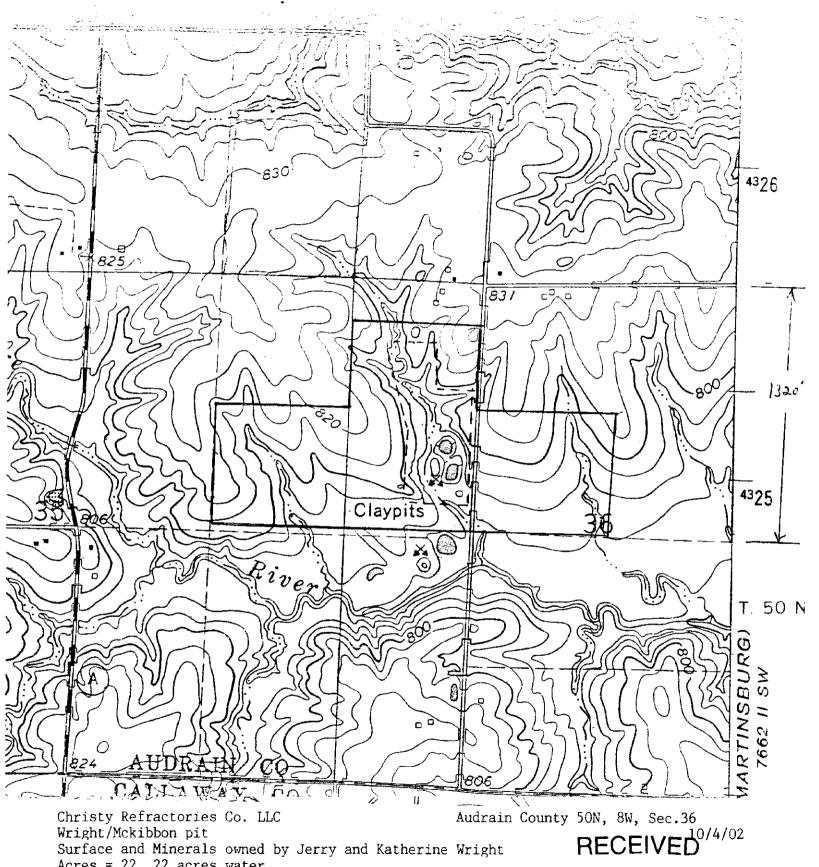
C - Musgrove Pit Surface owned by Bill Carter

B+C - Minerals owned by Harbinson Walker Acres - 27 2water/ 25 pasture

No Papilic Roads Within 1000 From. Thoug

## RECEIVED

OCT 1 0 2002



Surface and Minerals owned by Jerry and Katherine Wright

Acres = 22 22 acres water

Property boundary --- Permit Boundary

No Public Roads within 100 of The Pain. TArea

OCT 1 0 2002

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486-2131

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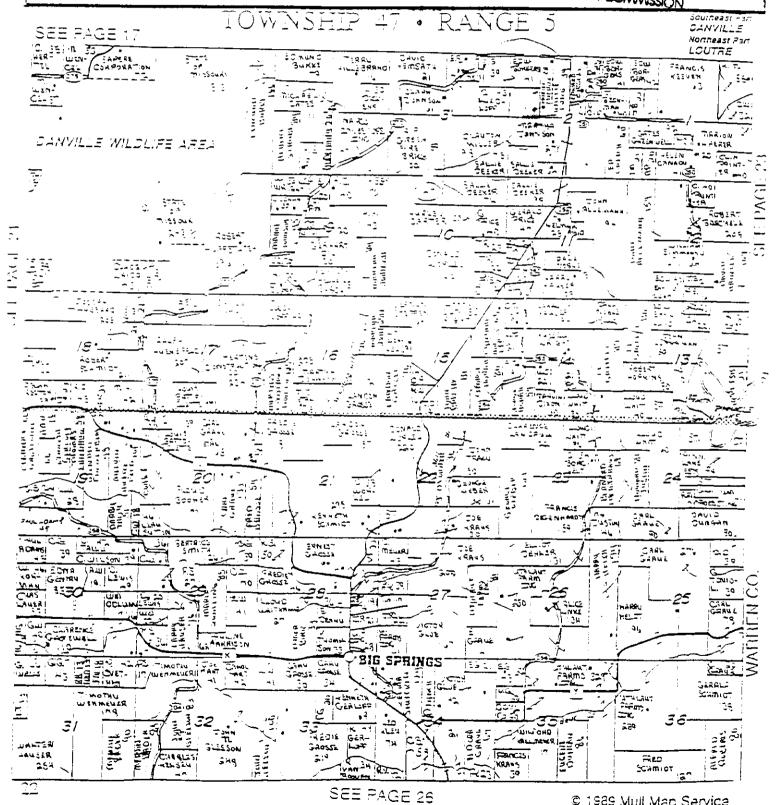
# HERMANN LUMBER HOME CENTED ECEIVE

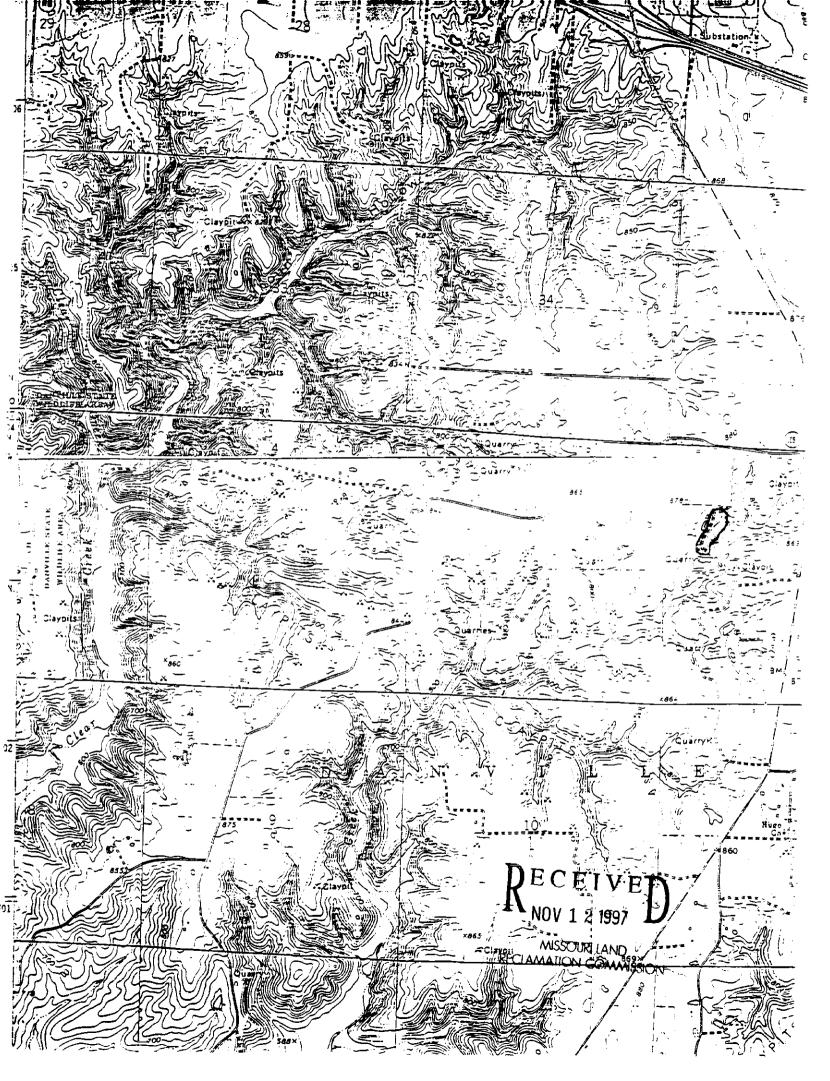
6th & Market

FLOCE COVERINGS

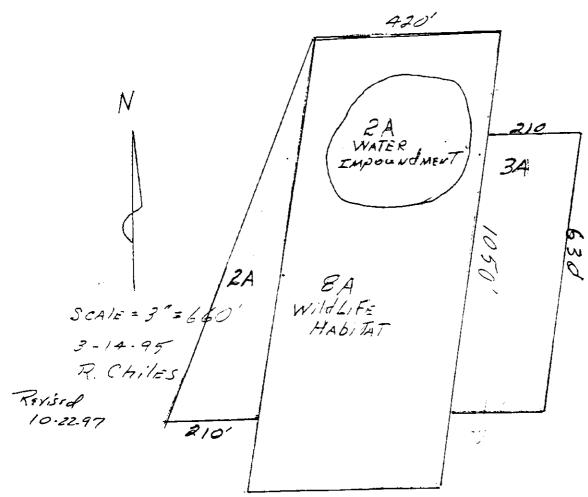
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RECLAMATION COMMISSION



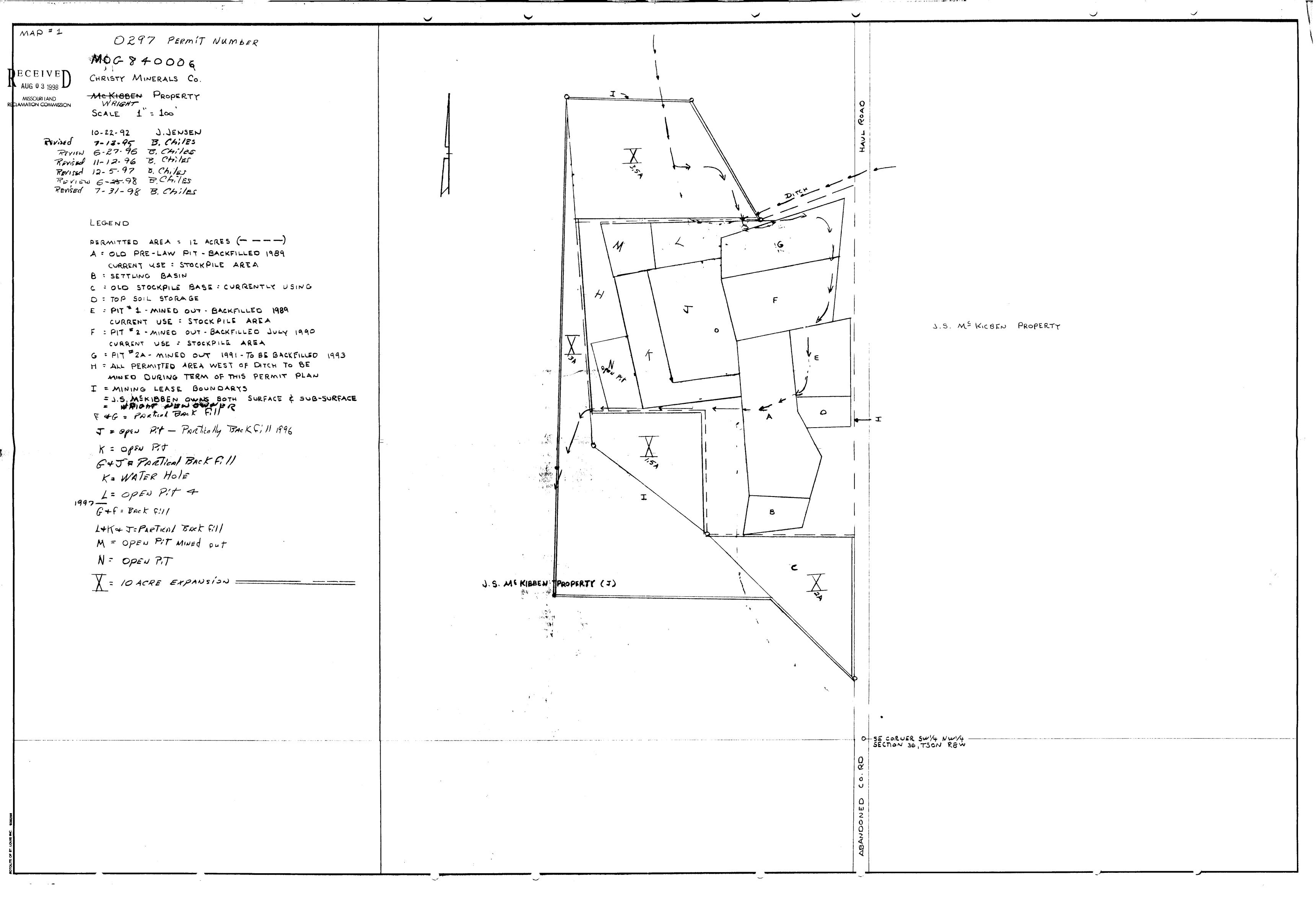


## CHRISTY MINERALS COMPANY



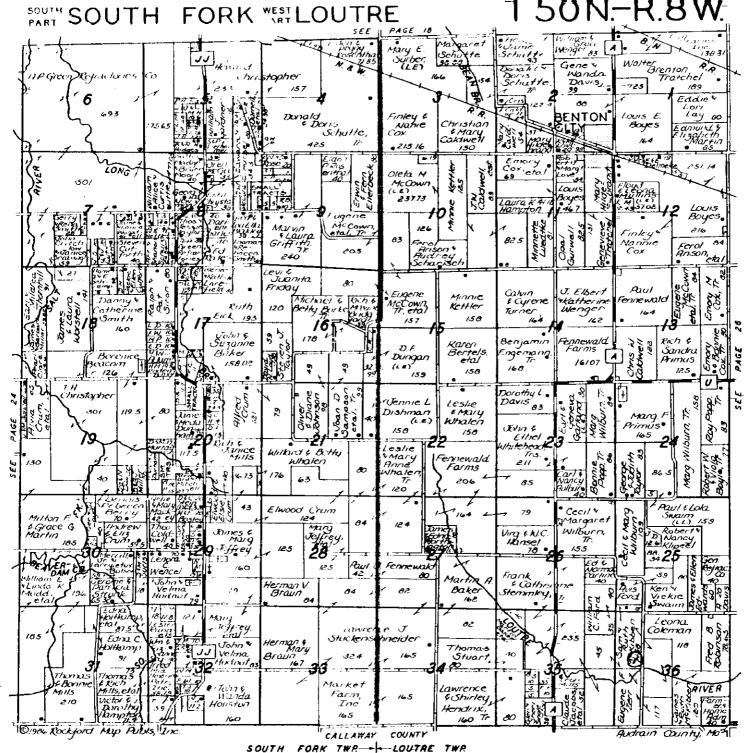
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Sign in the second seco		7-31	1-98
ANY CHRISTY MINER	NRIGHT	DATE	
TO HWY A	RECEIVI AUG 0 3 1998 MISSOURI LAND RECLAMATION COMM		
AREA PI-		LOUTRE RIVER	
1/4			4

Scale: 8" = 1 mile .



(AUORAIN Co. = 1 SITE)

'ANY CHRISTY MINERALS COM 'PIT MCKIBBEN  AUDRAIN	COMMODITY MINED	
# 30215447 %	SECTION 36 TOWNSHIP 50N , RANG	;E <u>8W</u>
TOHWY A		
PIT AREA	ECITVE  OCT 2.8 199?  MISSOURILAND  RECLAMATION COMMISSION	<u></u>
	LOUTRE RIVER	**

Scale: 8" = 1 MILE

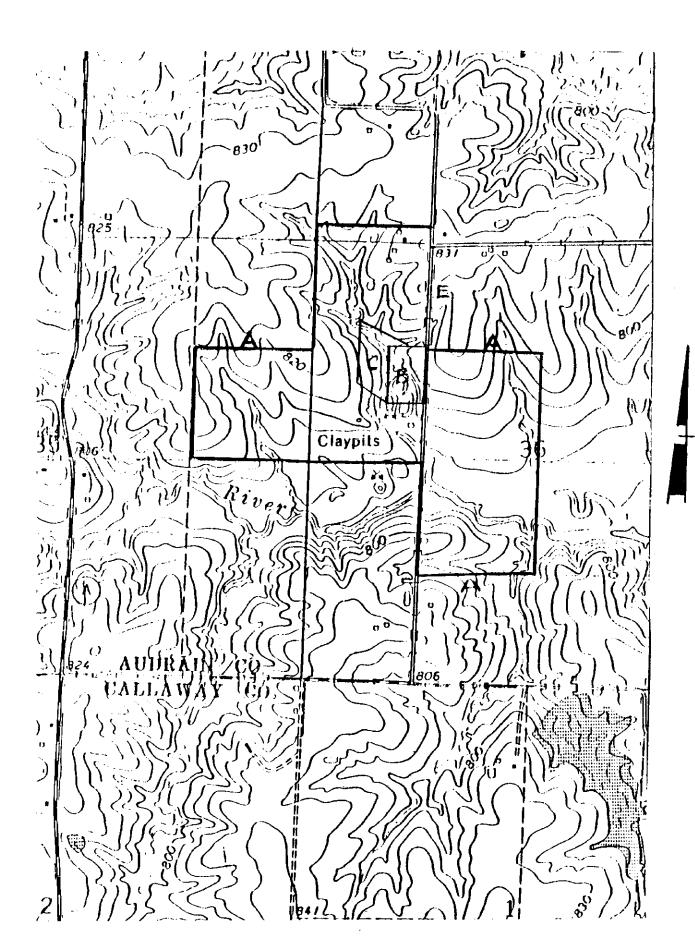
#### CHRISTY MINERALS COMPANY

951 Am & Mag

- A. Boundaries of land owned by J. S. McKibbens
- B. Land currently permitted
- C. Land proposed to be permitted with this application
- D. No buildings within 1000 feet of existing or proposed permitted areas.
- E. Haul road (abandoned county road)

Maps were prepared 12-12-91 by J. V. Jensen, Mining Supervisor

Location = Section 36, township 50 North, Range 8 West



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## HERMANN LUMBER HOME CENTER

6th & Market

FLOOR COVERINGS

Hermann, Missouri

READY-MIXED CONCRETE

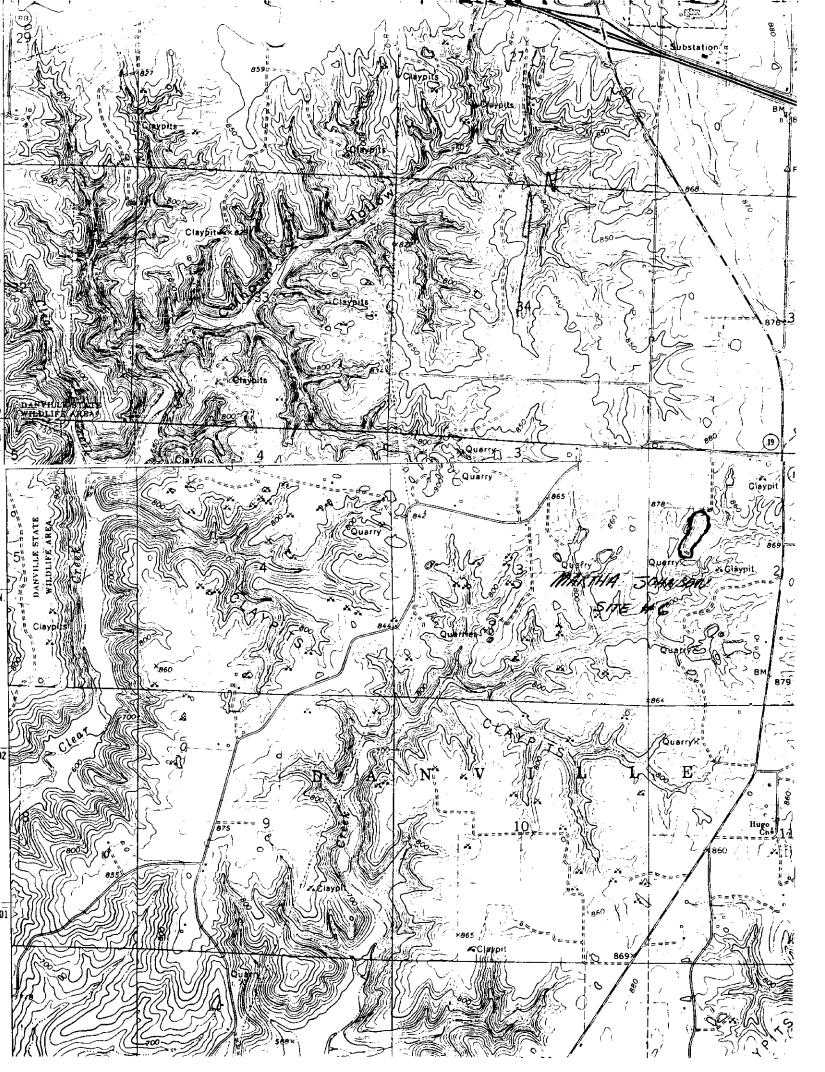


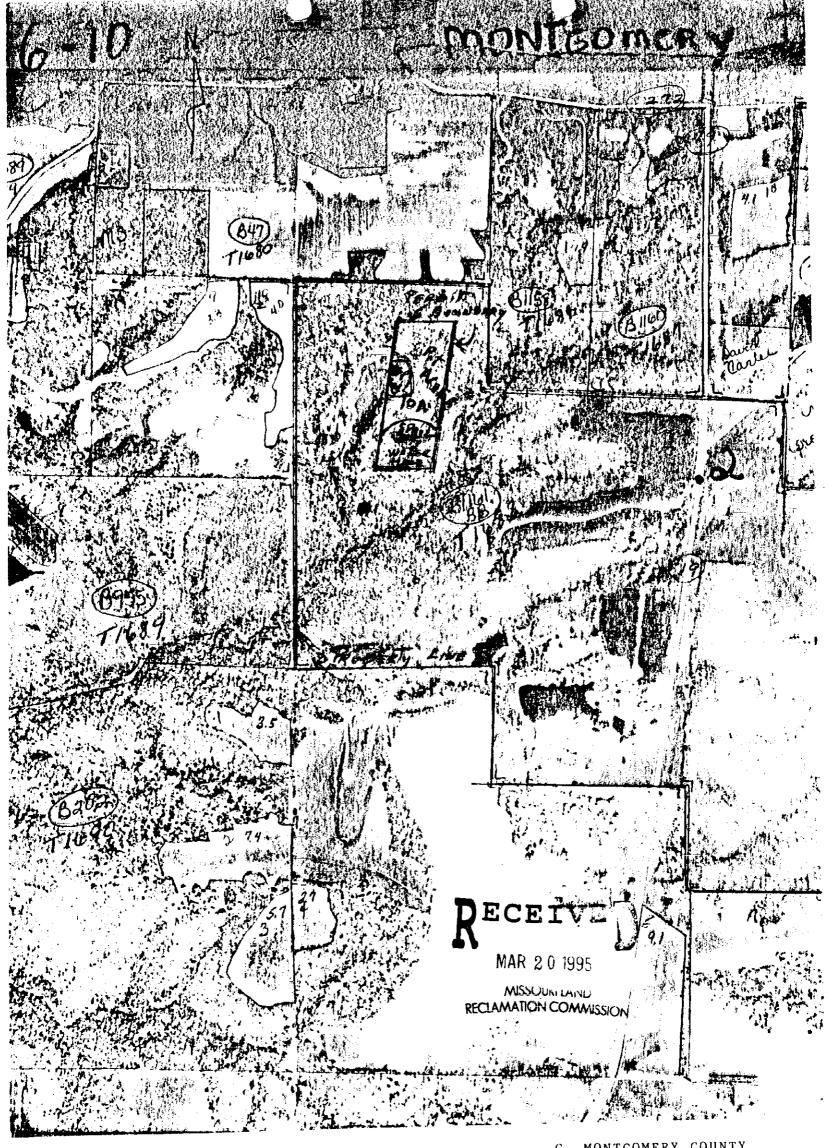
TOWNSHIP 47 • RANGE

DANVILLE Northeast Part SEE PAGE 17 LOUTRE D. 35 TL 33 SAPERE TEL CEL CORPORATION MISSOURI OF TERRU HILLE BRAND DAVID HEMSATH SURVE SURVE 5% 39 Дø 81 H 163 1. 30 10kg CLARK LUEN. OHNSON X3: CEL 371 MARCO GREEN WELL OF THE RERE A P HIBERT STRUBE INVESTORS REEN SP WILLER ED CRECH MAD COLIN CO RP 30 1603 DANVILLE WILDLIFE AREA HELEN CANACU HILES BRKK X, 57971 ALLEMANN **⊀**. ∺. 35 BURCHELE 17.1550UR: MARMIL JOHNSON 43 205 243.7 208ERT ORUID à ž uf-F5TuTER CONALC NOBLE HHTHAM. وبقياهون PAGE £38; CHOS F ECO AO JIB<sub>A</sub>, KENNE -្នន្តជា WALDO PE. LUMO Nogra 5759550 5759550 5759550 ARAU HRUSER - IS JOSEPH HUBBARO CAT-Q.6H Hing. STANKING TO THE STANKING THE 8000 ggf and. Ţ, N 1100 4 to 5 30 18. HUENEFELD/7 16 MERTENS 205 ROBLET TARTY P TANTENS TOTAL TO 131 HOPK:NS SCHMIOT PANDON GROSSI Lucus Whit: HOUNS BATTO CSCAR I 9.0 AN CON 37 DIXON , r, o CLARENCE ENEC : GARL ANDON R. THORD JR OSSE اعتوريد .517 ETAL 220 TRACU 13 5H õ .5 Ç0 Grongt Weister 20 TEDRUE NEBEK 21 mon-Reil Carl Me OF POEDSTIN BOOHER 295 PRANCIS GIVAC CARL DICENHARDY 184 JOE ZENNETH 1.59 ₹8845 130 SCHMIOT 30 11 30 CARL GRAVE ი.ი 33 14.88¢ 50<sub>Z</sub>7 KRA45 **3**9 FREDIE (Amil MON TO EDMA Li 39 40 28 MAN 7 10 HARRY 九山 13H ODLUM HELOT AUER : 20 VICTOR GARUE **BIG SPRINGS** Gango FARMS 329 CARY MOTHU TOL CG. न्यं व्यर يدُنا Gerald Schmiot 43 5 5 5 HH 34 41 30 THERETE PO CERLIFF 139 TIMOTHU WEHMEUER 1.113 INC. 36 250 ALFRED Poetins Po EL O COR AUNT SAD 31 HALLINEYER ALDIE 1.50N GROSSE FRANCES FRED WALTER CHMIDT HAUSER 84.13 254

> SEE PAGE 26 MARTHA JOHNSON, SITE #6

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DETAIL MAP

G. MONTCOMERY COUNTY NW SW & S 2 TW 47 R 5 W

- ... I BREIT BOUNDARY SEE ABOVE 10A
  B. PROPERTY LINES MARKED SEE ABOVE MARTHA JOHNSON 3-14-95 ROBERT L. CHILES C. NA
- D.NA
- E. POST MINING LAND USE SEE BACK
- G. CHRISTY MINERALS COMPANY

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### HERMANN LUMBER HOME CENTER

6th & Market

Hermann, Missouri

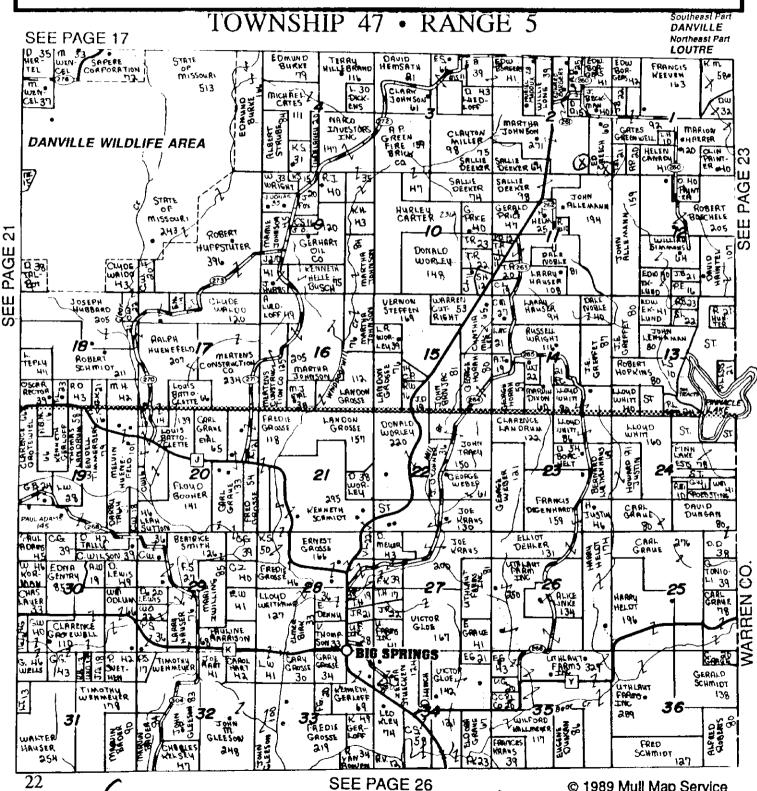
FLOOR COVERINGS

READY-MIXED CONCRETE



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COMPANY CHRISTY MINERALS COMPANY	DATEJANUARY 16. 1991
COMPANY	COMMODITY MINED CLAY
MINE/PIT <u>CREECH ( MUSGROVE)</u>	SECTION 2 TOWNSHIP 47N , RANGE 5W
COUNTY MONTGOMERY	00011011
BOND# 09963550	У
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1 134	HAUL ROAD PIT AREA
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Scale: 8" = 1 mile

DATE JANUARY 16, 1991 CHRISTY MINERALS COMPANY MINE/PIT JOHNSON (GREENWELL) COMMODITY MINED \_\_\_\_CLAY SECTION \_\_\_\_2 , TOWNSHIP \_47N , RANGE \_5W\_\_ MONTGOMERY COUNTY \_\_\_\_ BOND# 30215468 OCT 2 8 1992 MISSOURI LAND LE RECLAMATION COMMISSION GRAVEL

Scale: 8" = 1 MILE



### CHRISTY MINERALS COMPANY

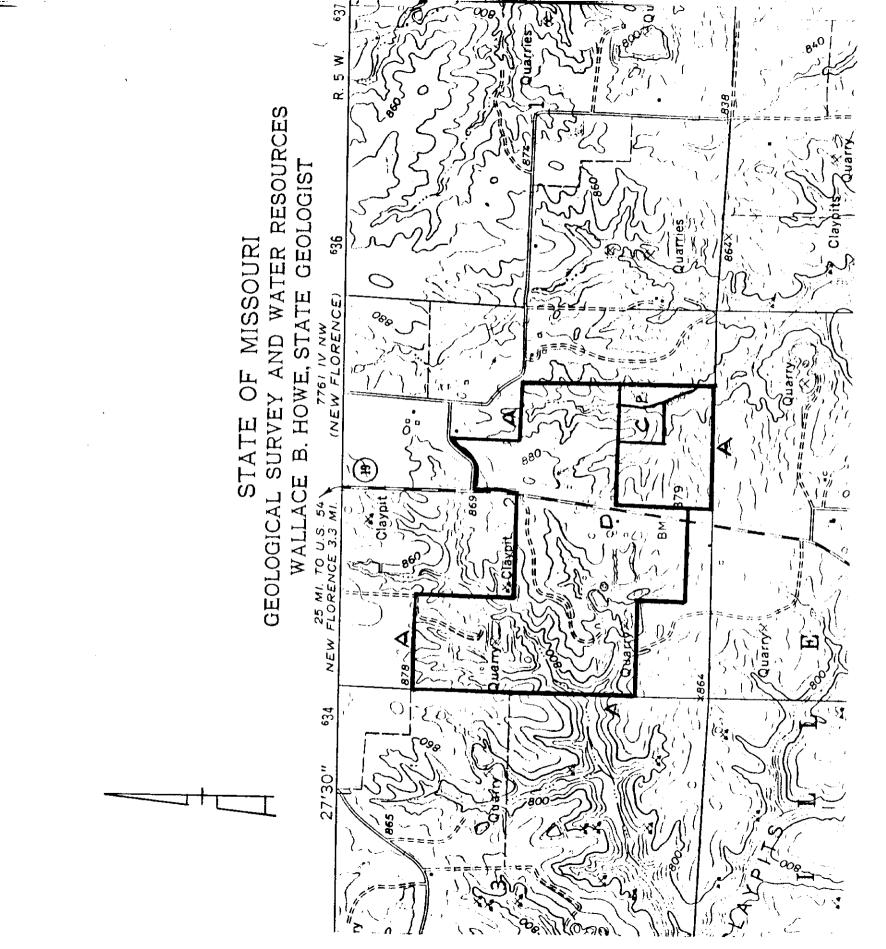
1991 12 m - Alex

- A. Boundaries of land owned by Martha Johnson
- B. Land currently permitted
- C. Land proposed to be permitted with this application
- D. Martha Johnson residence

Public roads located within 100' of permit areas - None

Maps were prepared 12-12-91 by J. V. Jensen, Mining Supervisor.

Location = Section 2, Township 47 North, Range 5W



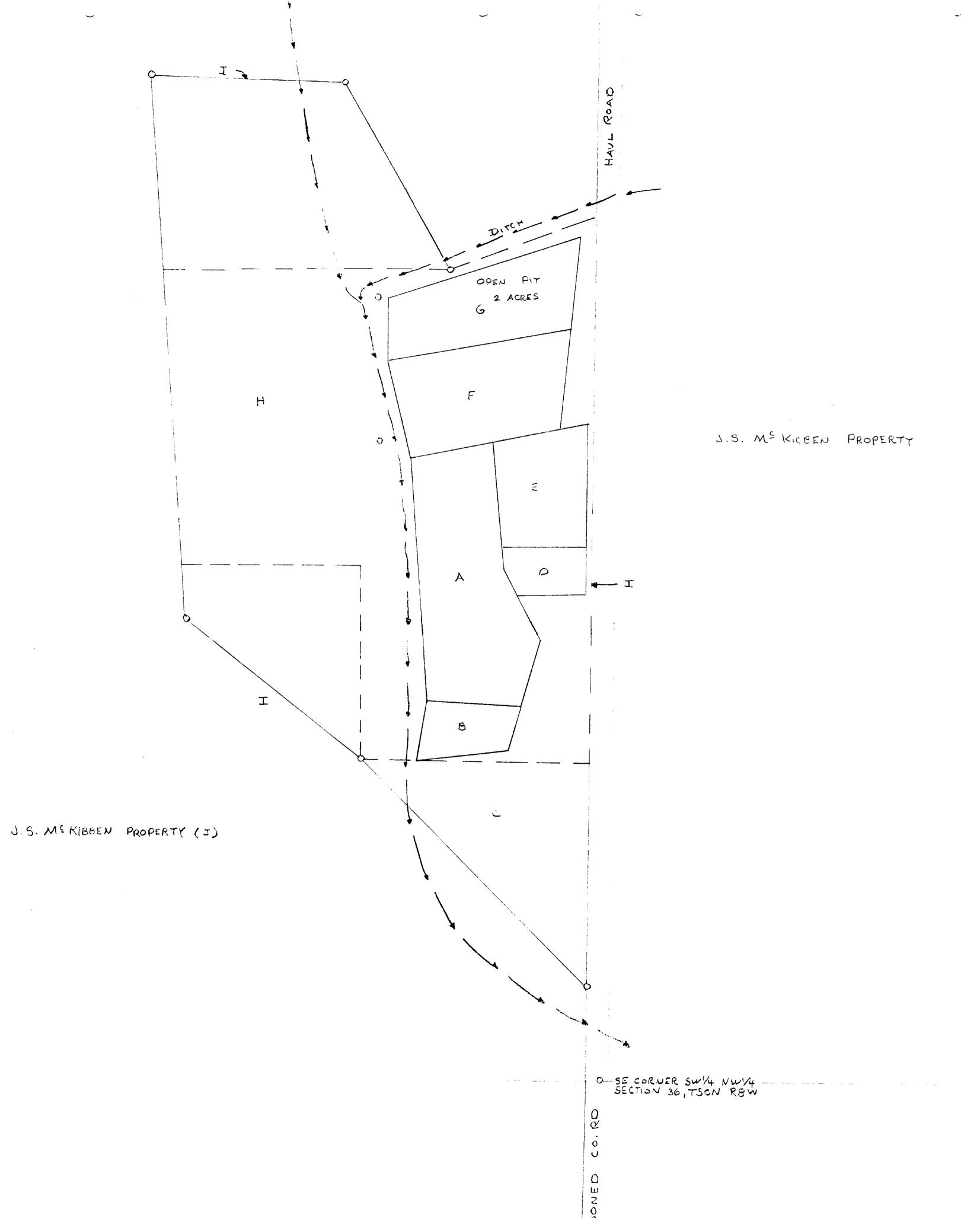
CHRISTY MINERALS Co. MCKIBBEN PROPERTY SCALE 1" = 100" 10-22-92 J.JENSEN

## LEGEND

PERMITTED AREA = 12 ACRES (- ---) A : OLD PRE-LAW PIT - BACKFILLED 1989 CURRENT USE : STOCKPILE AREA B : SETTLING BASIN C : OLD STOCKPILE BASE : CURRENTLY USING D = TOP SOIL STORAGE E = PIT # 1 - MINED OUT - BACKFILLED 1989 CURRENT USE : STOCKPILE AREA F = PIT # 2 - MINED OUT - BACKFILLED JULY 17.40 CURRENT USE & STOCKPILE AREA G = PIT = 2A - MINED OUT 1991 - TO BE BACKFILLED 1993 H = ALL PERMITTED AREA WEST OF DITCH TO VE MINED DURING TERM OF THIS PERMIT PLAN

: J.S. MEKIBBEN OWNE BOTH SURFACE & SUB-SURFACE

I = MINING LEASE BOUNDARYS



SEP 31 1903 WINDS WARE TOWN
KECLAMATION COMMISSION

